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United States Patent [19]**Phillips**[11] **Patent Number:** **6,014,847**[45] **Date of Patent:** **Jan. 18, 2000**[54] **LAMINATED ROOFING SHINGLE HAVING
STAGGERED SHADOW LINES AND
METHOD OF MAKING THE SAME**[75] **Inventor:** **John D. Phillips, Pataskala, Ohio**[73] **Assignee:** **Owens Corning Fiberglas Technology,
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[21] **Appl. No.:** **09/143,897**[22] **Filed:** **Aug. 31, 1998**[51] **Int. Cl.⁷** **E04D 1/28**[52] **U.S. Cl.** **52/311.1; 52/314; 52/554;
52/555; 52/557; 52/745.19**[58] **Field of Search** **52/314, 554, 555,
52/557, 559, 745.19, 311.1; D25/139****Primary Examiner**—Christopher T. Kent**Attorney, Agent, or Firm**—Inger H. Eckert; James J. Dottavio[57] **ABSTRACT**

A laminated roofing shingle having staggered shadow lines comprises an underlay and an overlay attached to an underside of the overlay. The overlay has a plurality of spaced-apart tabs. An opening is defined between each one of the tabs. Portions of the underlay are exposed through the openings between the tabs. A layer of granules is disposed on the tabs and the underlay. The layer of granules on a lower portion of the overlay and on an upper portion of the underlay are substantially uniform in color and darker in color than the granules the remainder of the tabs and the underlay. The darker layers of granules produce staggered shadow lines which enhance the three-dimensional appearance of a roof surface upon which the shingles are applied. A method for making the laminated shingles comprises the steps of providing a base material, coating the base material, applying layers of granules to produce the shadow lines, cutting the fiberglass mat, and attaching the overlays and the underlays together to produce the staggered shadow lines.

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20 Claims, 6 Drawing Sheets